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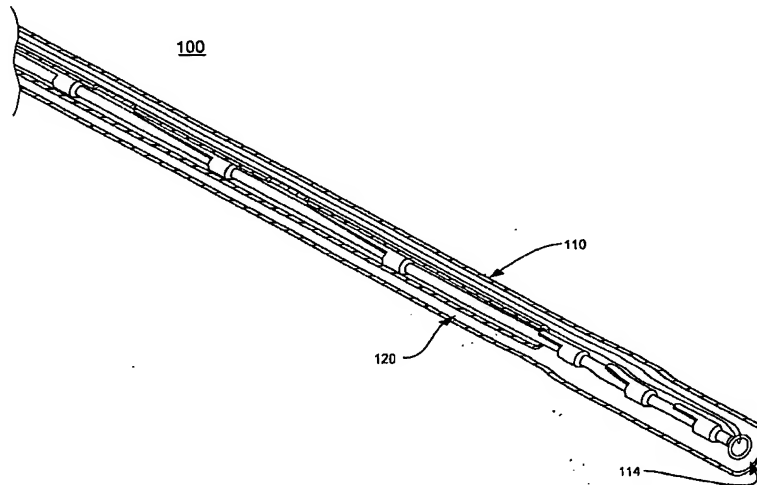
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(54) Title: **CARDIAC VALVE ANNULUS REDUCTION SYSTEM**



(57) Abstract: A catheter-based, annulus reduction device and system for cardiac valve repair and method of using the same. The system is usable for treating mitral valve regurgitation and comprises a catheter, a reduction ring carried within the catheter, the reduction ring including a plurality of exit ports formed in a side wall of the reduction ring and filament received in the reduction ring. The filament includes a plurality of radially extendible barbs corresponding to the sidewall openings. The reduction ring carrying the filament is deployed adjacent a mitral valve annulus and the filament is translated relative to the reduction ring to deploy the barbs through the exit ports and into the annulus and to further translate the reduction ring with deployed barbs to reshape the annulus.



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